

JANUARY

at the

CALIFORNIA ACADEMY OF SCIENCES

JANUARY MEETING

DATE: Wednesday evening, January 17
TIME: 8:00 p.m. (One meeting only)
PLACE: May Treat Morrison Auditorium
SPEAKERS: Mr. Edgar N. Stone
SUBJECTS: "THE SEARCH FOR THE LIVING FOSSIL"

This most unusual color film was photographed in 1963 in the northeast corner of India in the state of Assam some 60 miles from the border of Red China—an area now off-limits for such a photographic safari. It was filmed by Mr. Stone and Marvin Becker and is narrated by the former. It deals, in the main, with the Great Indian Rhinoceros, a rare beast which is seriously threatened with extinction. There are, according to Mr. Stone, probably some 300-400 left in all of India today and perhaps another 100 in Nepal. Much of the film, which also includes considerable footage on the bird and animal life of the area, was shot while riding elephants which presented some unique problems for the photographers.

Mr. Stone, a native San Franciscan, is on the Board of Directors of the San Francisco Zoological Society, the Cooper Ornithological Society, and the Audubon Society, and is a member of the Fauna Preservation Society of London, and the Explorer's Club of New York.

Please note that there is only one performance of this program—at 8:00 p.m. If the auditorium is filled, late-comers will be invited to attend the 8:30 sky show in Morrison Planetarium.

MORRISON PLANETARIUM

"THE OTHER 99,999,999,999" begins on January 5 and will continue through February. Our galaxy contains a hundred billion stars—of which the sun is only one. What about the bizarre, the mysterious, the unknown balance?

Performances daily at 2:00 p.m. with evening shows, Wednesday through Sunday, at 8:30. Extra matinees on Saturdays and Sundays at 3:30. The Planetarium is closed on Monday and Tuesday nights. Admission: Adults, \$1.00. Children (under 16), students and armed services personnel, 50c.

MORRISON AUDITORIUM

"THE SEA OF CORTEZ", an hour-long documentary film in color photographed in and around the Gulf of California is shown exclusively at the Academy on Saturdays and Sundays at 12:45, 2:15 and 3:45 p.m. Admission: Adults, \$1.00. Children (under 16), students and armed services personnel, 50c.

SPECIAL EXHIBITS

From the Academy Collections: "CRINOID", a fossilized animal from the Jurassic period commonly referred to as a sea lily. Main Foyer, Science Museum. Continues through March.

"CAMOUFLAGE IN NATURE", Dr. Edward S. Ross' fine photographs of some of nature's most ingenious masqueraders, continues indefinitely in Lovell White Hall of Man and Nature.

NEWS and NOTES

THE NEWSLETTER CANNOT hope to keep apace with the construction of Cowell Hall, but an endeavor will be made to present monthly progress reports insofar as possible. Since last you heard, the following has come to pass: The Fountain of Whales and Francis Scott Key, both formerly in the courtyard, have briefly been airborne, and both received TLC (tender loving care) in the process. First to fly were the whales who were carefully released from their mooring

in the old, round pool, and, with the aid of a giant crane, lifted gently and set down on the pediment in the new, and higher, oval-shaped pool. Next, the monument to Francis Scott Key was approached—with not a little awe. Meticulously, the workmen started at the top—first removing the bronzes from the marble "roof" under which the composer sat,



then the marble decorations and the pillars which supported his covering, and there he was—unprotected for the first time in decades—but not for long. He was "laced" in a sling, the mortar removed from his base, and with the grace of a slowly-rising fishing pole, raised from the perch where he has been observing the passing scene for lo! these many years. All elements of the monument were catalogued and then removed to a secure area in Golden Gate Park where they will be renovated prior to being re-assembled and placed in a new location.

At this writing, the courtyard is one, enormous hole surrounded by a miniature range of dirt mountains. Cement is daily being poured for the foundations of Cowell, a task which will be some time in the accomplishing.

RECENT SCIENTIFIC PUBLICATIONS of the CALIFORNIA ACADEMY OF SCIENCES

Proceedings

"Observations on *Pleurobranchaea californica* MacFarland, 1966 (Opisthobranchia Notaspidea)." Dustin D. Chivers. Vol XXXII, No. 17. November 22, 1967 25c
"Six New Species of Caliphoridae and Sarcophagidae (Diptera: Calyptratae) from the Ethiopian Region." F. Zumpt. Vol. XXXV, No. 6. November 22, 1967 25c
"A New Species of *Cincinnata* from Idaho (Coleoptera: Cicindelidae)." Norman L. Rumpf. Vol. XXXV, No. 7. November 22, 1967 25c
"Survey of the Reptiles of the Sheikdom of Abu Dhabi, Arabian Peninsula. Part I. A Geographical Sketch of the Sheikdom of Abu Dhabi." John Gasperetti. Vol. XXXV, No. 8. November 22, 1967 35c
"Survey of the Reptiles of the Sheikdom of Abu Dhabi, Arabian Peninsula. Part II. Systematic Account of the Collection of Reptiles made in the Sheikdom of Abu Dhabi by John Gasperetti." Alan E. Leviton and Steven C. Anderson. Vol. XXXV, No. 9. November 22, 1967 75c

Occasional Papers

"A New Species of *Eremias* (Reptilia: Lacertidae) from Afghanistan." Steven C. Anderson and Alan E. Leviton. No. 64. November 22, 1967 25c

MR. JEROME W. HULL, Executive Vice President of Pacific Telephone, was elected a member of the Board of Trustees of the Academy on November 20. In addition to serving as a director of Pacific Telephone and the Bell Telephone Company of Nevada, Mr. Hull is a director of Pacific

Southwest Airlines, Crocker-Citizens National Bank; New York Life Insurance Company; American Ordnance Association, San Francisco Chapter; American Red Cross, Golden Gate Chapter; United Bay Area Crusade; and the World Trade Club of San Francisco.

He resides in Hillsborough, California.

YOUR ATTENTION

is directed to the two astronomy courses which will be presented by the Staff of Morrison Planetarium later on this month:

CELESTIAL NAVIGATION. January 30 through May 14. 7:30 to 9:30 p.m. on Tuesdays. A sixteen week course in the principles of celestial navigation for the beginner. Enrollment for the course is \$25.00, plus \$12.00 for supplies. Registration at the first three meetings.

ASTRONOMY FOR FUN. January 29 through April 1. 7:30 to 9:30 p.m. on Mondays. A course which brings astronomy down to earth designed to acquaint the layman with techniques of observation, identification, and to make the oldest of the sciences comprehensible and enjoyable for all. Ten sessions, three of which are devoted to contemporary space science. Enrollment is \$16.00. Registration at the first three meetings.

Special discounts on courses offered to families as well as to individuals enrolling in more than one course per semester.

BOTANICAL SPECIMENS (cones) and photographs of the Balfour or Foxtail Pine (*Pinus Balfouriana*) from the southernmost known stations in the North Coast Ranges and in the southern Sierra Nevada have recently been added to the Botany Department collections. The Coast Range record, by William Sholes, California Department of Fish and Game, was taken from South Yollo Bolly, Tehama County, at an elevation of 7800 feet. The Sierra record is by Tony Gasbarro, U. S. Forest Service, from Sirretta Peak, Kern Plateau, Tulare County, at an elevation of 9900 feet.

The Balfour Pine is found only in California and is the nearest relative of the ancient Bristlecone Pine of the White Mountains. There is a fine specimen of the latter on display in the Alice Eastwood Hall of Botany.

THE FOSSIL SPECIMEN of crinoid on display "From the Academy Collections" in the Science Museum is worthy of special note. It is from the family Pentacrinidae of the genus Pentacrinus and is well over one hundred million years old. It is a shallow water form, a fine example taken from the Swabian Jura of southwest Germany from a bed of early Jurassic Age, and is a gift to the Academy from Mrs. Ludwig Eisig of San Francisco.

Crinoids remain rooted to one spot and give the appearance of a blooming lily.

THIS PARAGRAPH CONCERNS Life Members only. In keeping with the new policy of attendance at monthly meetings and the necessity of presenting membership cards, and in case your card has been lost or misplaced, a new "Life Member" card will be forwarded you just by writing the Membership Secretary at the Academy, Golden Gate Park, San Francisco 94118.

HERE ARE MORE excerpts from another letter received from Dr. Edward S. Ross as he continued his collecting expedition in Africa. It was forwarded from Abercorn, Zambia.

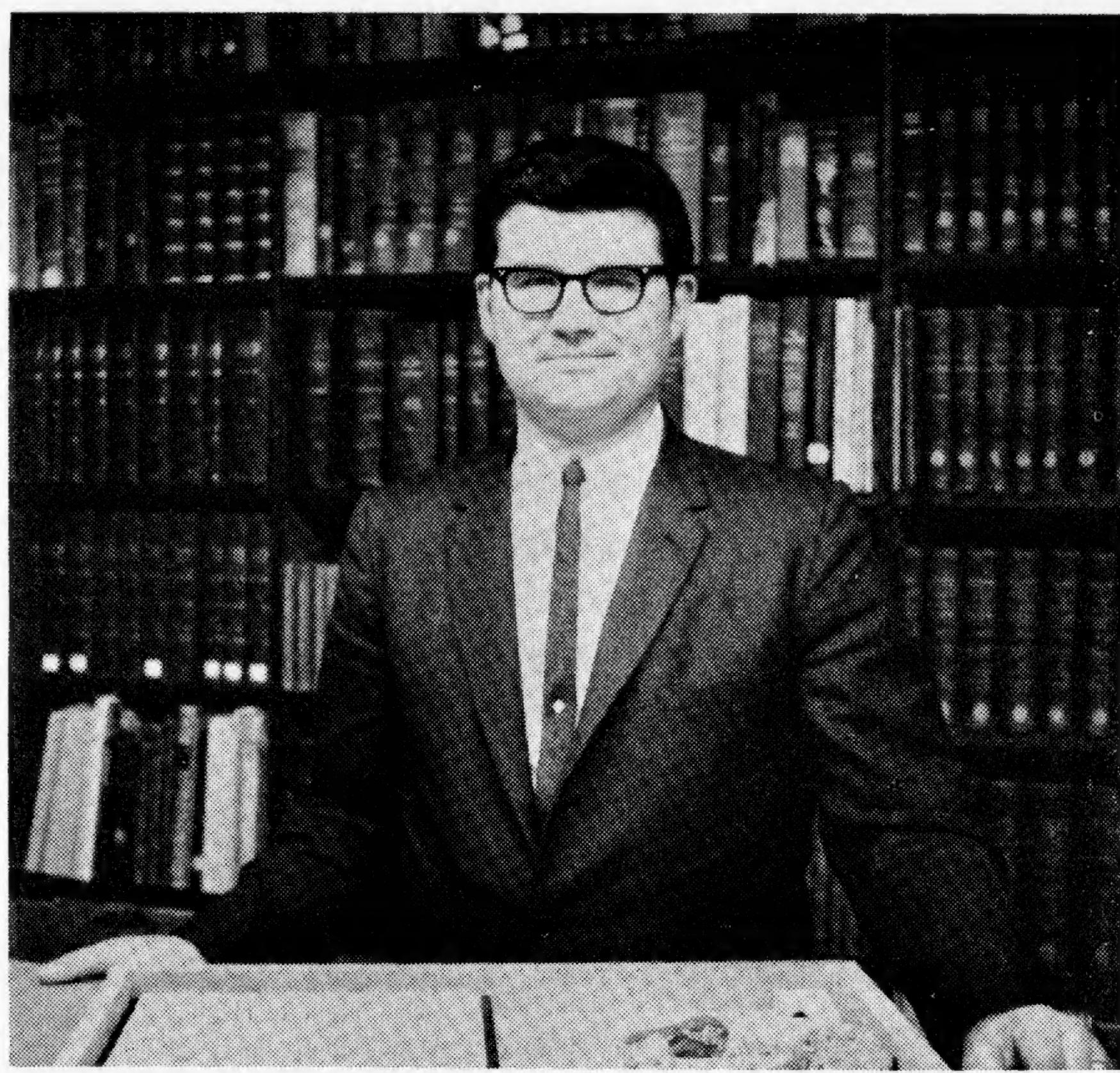
"After leaving Windhoek we crossed the Kalahari on a continuous sandy track which the truck negotiated very well . . . We saw only one bushman family — probably farm workers en route to another place. After Maun, we ran into some real game country in the tsetse fly-infested Okavango Swamp and later, while en route to Kasama on the Zambezi River. The latter stretch was so little travelled that we had difficulty finding the road and our way was frequently blocked by trees felled by elephants. Their deep tracks in the road added bumps to the already rough route.

"Once we saw thousands of zebra and wildebeest in herds as far as the eye could see. The ride here from Victoria Falls was rather routine, endless savanna.

"We are now about to cross into Tanzania, taking the little-used route which parallels Lake Tanganyika and the lower end of Lake Victoria. Rains permitting, we intend to enter Serengeti from the west side. Collecting has become quite good now that we are in the East African "spring" triggered by the short rainy season. Flowers are popping up everywhere and the savanna is red with fresh foliage.

"Our travels should end in about four weeks at Nairobi where the truck will be stored."

MEET THE STAFF



VICTOR A. ZULLO joined the staff of the Academy on September 1 as Associate Curator of Geology. He is a rarity, a native San Franciscan, who attended George Washington High School and proceeded to the University of California at Berkeley from which he received his A.B., M.A., and Ph. D. degrees in paleontology. The subject of his doctoral thesis was "The Classification and Phylogeny of Sessile Barnacles."

In 1962 he was awarded a post-doctoral fellowship in systematics at the Marine Biological Laboratory at Woods Hole, Massachusetts. He continued there as Resident Systematist for the Systematics-Ecology Program and in 1964 became Assistant Director as well. In that same year he was a full-term member of the Galapagos International Scientific Project. Recently, for six months, he pursued research in Europe devoted to revising the classification and phylogeny of sessile barnacles, spending time in London, Amsterdam, Brussels, Copenhagen, Oslo, Stockholm and Paris.

In 1960 he met his wife Janet who was also a student in paleontology at Berkeley. During the Woods Hole interval, she was employed as a Research Assistant at the Oceanographic Institution.

The Zullos, who reside in San Rafael, are anticipating a special adventure in March when they will be members of an expedition concerned with deep-sea sampling off the coast of South Africa.

An Academy-family sort of footnote to his career is that he appeared on the Academy's "Science in Action" back in 1953 as one of the young scientists usually featured on the program.

Travel, at home or abroad, is the prized diversion of the Zullos — a pursuit they hope to enjoy at every available opportunity.

NEW MEMBERS OF THE ACADEMY

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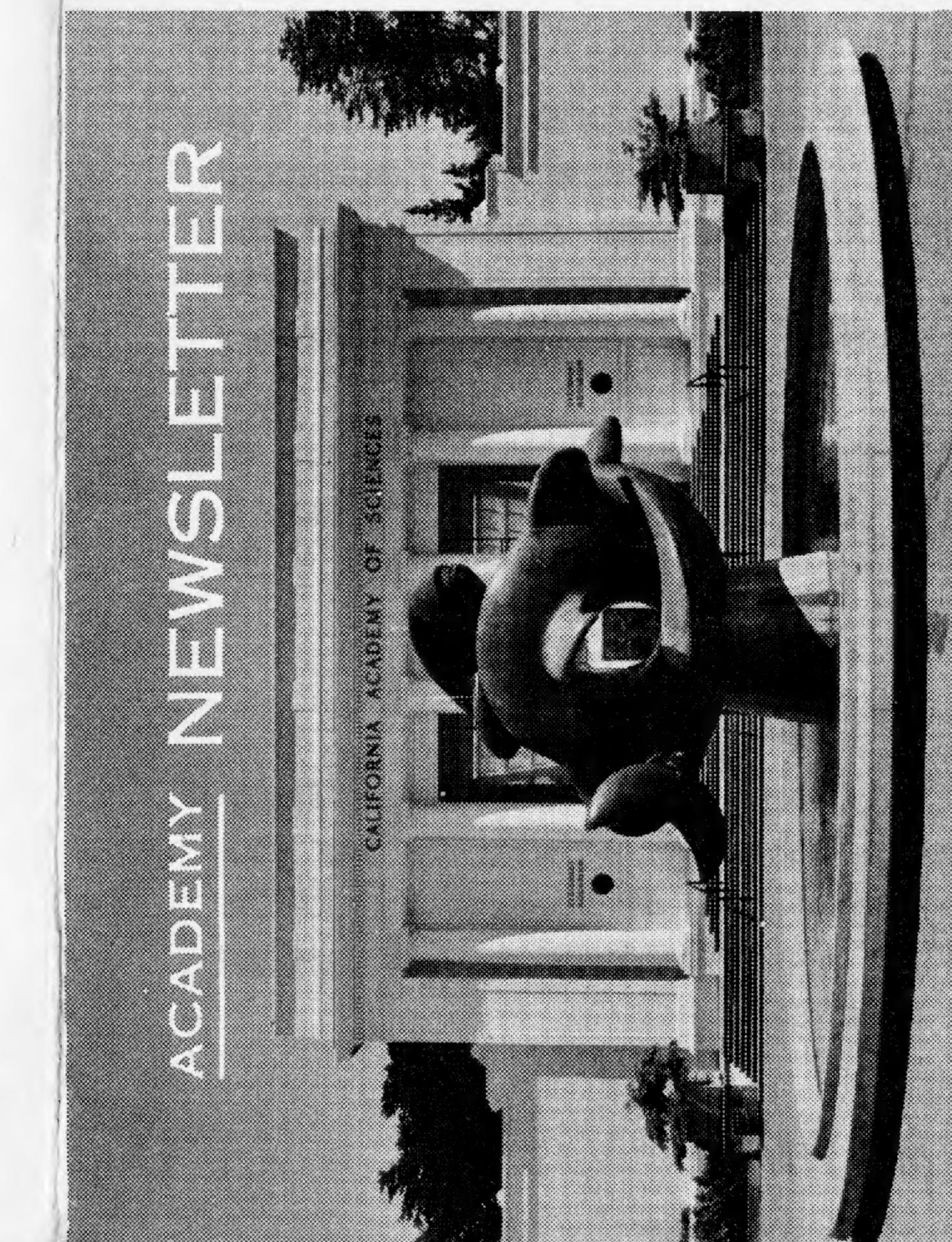
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